

Derwent Abstract 07832C/05

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07832C/05 AIRWICK AG 14.07.78-LU-079981 (24.01.80) A0In-17/14	C03 Bait for flies harmful to humans - contains carbohydrate(s), proteins, peptide(s) and/or aminoacid(s), together with caramel as attractant and opt. insecticide	AIRW-14.07.78 *DT 2928-204	C(4-B4A, 4-C1, 4-C2, 4-D1, 10-B2B, 12-N2, 12-N3), 6 pref. dimetilan or azamethiphos. Pref. the nutrient comprises a mixt. of carbohydrates contg. at least 25 wt. % proteins and 5-15 wt. % plant protein hydrolysate. The bait is pref. in the solid, dry state or is granulated with ave. particle size 0.05-1 mm.
Bait for use against flies which irritate human beings comprises carbohydrates, proteins, peptides and/or aminoacids as nutrients, together with 0.5-10 wt. % of caramel, based on the total wt. of the bait.			
<b>USES/ADVANTAGES</b> The bait is highly attractive to flies which normally pester humans and are disease carriers. Caramel is highly attractive to diptera such as flies and has advantages over other baits in that it is a natural prod., is non-toxic and is cheap to prepare. In addition, the bait can be prep'd. not only in a damp form but also in a completely anhydrous condition. Caramel also has a synergistic effect on the activity of other attractants such as cis-tricosene-9.			<b>PREPAREDATION</b> The bait is prep'd. by (a) grinding a solid mixt. of carbohydrates, proteins, peptides and/or amino acids, contg. 0.5-10 wt. % caramel, to give a powder of ave. particle size 0.5-1 mm and (b) adding 0.01-3 wt. % cis-tricosene-9 and 0.1-8 wt. % of an insecticidal carbamate ester or organophosphorus cpd. uniformly to the powder, and then placing or sticking this dry powder on a carrier such as paper, PVC, glass, pumice etc. Alternatively the cis-tricosene-9 and insecticide can be dissolved in a solvent and sprayed on the powdery mixt. of caramel and nutrient and then the volatile solvent removed by evapn.
<b>DETAILS</b> Pref. the bait also contains (based on the total wt. of the bait) 0.01-3 wt. % cis-tricosene-9 and 0.1-8 wt. % of an insecticidal carbamate ester or organophosphorus cpd.,			<b>EXAMPLE</b> A bait contg. 19.0 wt. % sugar, 60.3 wt. % meat meal, 9.5 wt. % plant protein hydrolysate, 4.7 wt. % dimetilan, 5.0 wt. % caramel, 0.8 wt. % red dye, 0.5 wt. % potassium sorbate 07832C DT2928204+

and 0.2 wt. % cis-tricosene-9 was ground to a homogeneous powder and the powder placed inside a black parallelepiped carton, in the sides of which were two slits. The carton was then placed in a room at 25°C. in which flies of the species *Musca domestica* had been let loose. The number of dead flies in the carton was counted every 15 min. over a period of 2 hrs. The number of dead flies was considerably greater (almost twice as many) than those obt'd. using a similar bait mixt. contg. no caramel and which comprised 20.2 wt. % sugar, 63.5 wt. % meat meal, 10.1 wt. % plant protein hydrolysate, 4.7 wt. % dimetilan, 0.8 wt. % red dye, 0.5 wt. % potassium sorbate and 0.2 wt. % cis-tricosene-9. (17ppi+01)

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